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d⇔r Cye Blu Gly Tyr Glu Ger Ser Blu Asp Gln Tyr Val Leu Ard Gly 115 125

Oer Cys Sly Leu Slu Tyr Ash Leu Asp Tyr Thr Hu Leu Sly Leu Gin 130 - 135 - 145

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- Lys Cys Val Asp Ala Arg Lys Asn His His Lys Thr Lys Trp Phe Val
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- Phe Ala Siu Trp Thr Siu Met Ala His Siu Arg Val Fr. Arg Lys Leu
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- Ard Ser Ard Ser And Ala Ash Val Leu Ash Lys Val Glu Tyr Ala Gln
- Bin And Trp Lys Lew Bin Wal Bin Blu Bin Ard Lys Ber Wal Fibe Asp
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otq otq gog dag otg toa gas god god äad aat tto gag gat gto aja - 20- Leu Leu Ala Gln Leu Ser Asp Ala Ala Lys Asn Phe Glu Asp Val Arg 30 - 35 - 40
tgt aaa tgt ate tge oot ooc tat aaa gaa aat tot ggg oat att tat 25. Cys Lys Cys Ile Cys Pro Pro Tyr Lys Glu Asm Ser Gly His Ile Tyr 45 50 55
aat aag aac ata tot bag aaa gat tgt gat tgc ott bat gtt gtg gag — 30- Asr. Lys Asn Ile Ser Gln Lys Asp Cys Asp Cys Leu His Val Val Glu 60 — 65 — 70
doc atg dot gtg ogg ggg dot gat gta gaa goa tad tgt dta ogd tgt - 351 Pro Met Pro Val Arg Gly Pro Asp Val Glu Ala Tyr Cys Leu Arg Cys 75 - 80 - 85
gas tgc aas tat gas gas ags agc tot gtc acs atc asg gtt acc att 400 Glu Cys Lys Tyr Glu Glu Arg Ser Ser Val Thr Ile Lys Val Thr Ile 90 95 100
ata att tat oto too att tig ggo ott ota ott oig tac atg gta tat — 44% 11e Ile Tyr Leu Ser Ile Leu Gly Leu Leu Leu Tyr Met Val Tyr 110 — — 115 — — 120
ott act otg git gag occ ata otg aag agg djo oto tit gga dat goa - 49. Leu Thr Leu Val Glu Pro Ile Leu Lys Arg Arg Leu Phe Gly His Ala 125 - 130 - 135
<pre>cag tig ata cag agt gat gat gat att igg gat dad cag cot tit igda</pre>
Aat goa dad gat dig ola god ogo tod dud agi oda god aac gig olig 59. Asn Ala His Asp Val Leu Ala Ard Ser Ard Ser Ard Ala Asn Val Leu 188 - 188
aac aag ata daa tat goa caq can dac tan aan itt ina ato caa dad - 64. Ash Iys Val Glu Tyr Ala Sin Sin Arg Trp Lys Leu Sin Val Sin Siu 185 - 185
cal dua awa tot uto tit dhe chi cat uto uto uto ade taathiddaa - fr Fin Arg Lys Ser Val Phe Asp Arn His Val Val Leu Ser 197 - 195
tt maannoss mitga maga sasiaaabam bagabaabh maaabab ma am mightin 34
am adatti barti araraz miarraari izazlaan ailan aaaaan bi
. gajasayasaa layttaminaa hirrittiinin timataanat laataataaa ayatiittaa he

aataaatety betgtaaatt atettgaagt betttebetg gaabaagbab tetettiil: 369
arbabaatagt tiraabttga biitbaagat aatiitbagg gittittgiig tigitgiiii 1749
tigittgitt gittiggtgg gagaggggag gaatgootgg gaagtggtta ababbiii: 1119
tbaagtbab titabaabaa aabtiitgia aatagabbi abbiitbatt titogagiiib 1169
attiatatti tgaagtgtag baabbootaa baaagagetg abtiabbai titgabiitig 1229
cabtgabtg attabootgg tatotgootg gibtgaab gagataaba 1289
atgootggig getittaba aaaagbagat titottbat tabootgatgaab 1349
togaababa aabaabtgg baababa gibtabbaa aagabbaab atagtootgg 1409
togaabaaa gaaattitat titaaabcb 1498

..400.- 11

Met Ala Leu Ala Leu Ala Ala Leu Ala Ala Val Glu Pro Ala Cys Gly
1 5 10 15

Jer Arg Tyr Gln Gln Leu Gln Asn Glu Glu Glu Ser Gly Glu Pro Glu 20 25 30

Gin Ala Ala Gly Asp Ala Pro Pro Pro Tyr Ser Ser Ile Ser Ala Glu 35 40 45

Ser Ala Ala Tyr Phe Asp Tyr Lys Asp Glu Ser Gly Phe Pro Lys Pro 50 60

Pro Ser Tyr Asn Val Ala Thr Thr Leu Pro Ser Tyr Asp Glu Ala Glu e5 70 75 80

Aru Thr Lys Ala Glu Ala Thr Ile Pro Leu Val Pro Gly Aru Asp Glu 85 93 95

Asy The Val Gly Arg Asp Asp The Asy Asp Ala Asy Gln Leu Ard Ile 100 100 100

Gly Asn Asp Gly Ile Phe Met Leu Thr Phe Phe Met Ala Fhe Leu Phe 115 120 125

Ash Try Ile Gly Phe Phe Leu Ser Phe Cys Leu Thr Thr Cer Ala Ala 187 (187)

Fly Arr Tyr Gly Ala Ile Ser Sly Phe Gly Leu Ser Leu Ile Lys Tri 145 - 155 - 155

The Let Tie Mai Arg The Ber Thr Tyr The Tr. Bly Tyr The Asp Bly

^{*:2100 11}

<...111> 221

^{-212&}gt; PRT

 $[\]cdot 2213 \cdot$ Homo sapiens

	I & ^c	****						
91n Tyr Trp Leu 160	Trp: Trp: Val. Bhe Leu 168		Leu Leu The 190					
Les Arg Gly Phe 195	Ile Asn Tyr Ala Lys 200	Val Ari Lys Met 208	Pro flu Thr					
Phe Ser Ash Leu 210	Pro Arg Thr Arg Val 215	Leu Fhe ile Tyr 220						
<pre><210 > 12 <211 + 1864 <212 + DNA <213 + Homo sapiens</pre>								
<220. <221. CDS <222. (153)(8	15:							
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	gag ccg gcc tgc ggc Glu Pro Ala Cys Gly 15							
	tot gga gaa oot gaa Ser Gly Glu Pro Glu 30							
	ago att tot goa gag Ser Ile Ser Ala Glu 45							
aaj gat gag tot Lys Asp Glu Ser	ggg tit oda aag odd Gly Phe Pro Lys Pro 60	22a tot tad aat Pro Ser Tyr Asn 65	gta got aca - 365 Val Ala Thr - 76					
aga std see agt Thr Leu Fro Ser T5	tat dat daa dog gad Tyr Asp Glu Ala Glu 80	ago aco aad got Ard Thr Lys Ala	gaa got sot - 418 Glu Ala The -85					
ato out the gra lie Fro Leu Val 43	oot ada aqa dat dag Pro Gly Arg Asp Glu 95	dat the driedat Asp The Val Gly 100	dar rat (rat (401) And Asp Asp					
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gaad	cacaç	gag q	gaata	aatca	ac ct	geti	taaa	а аа	aataa	aagt	act	gttga	aaa -	agat:	catttc	965
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atoa	attag	gtg q	gttaa	atgst	it ga	аааа	agete	c tto	gcaat	ccaa	gte	igtga	atg	tatt	aataat	1085
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stgf	igtt	ttt :	gdada	ataat		atati	ctgat	t gti	ccaaç	gtta	atot	tagaa	aat	ttat:	tcaatt	1325
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ataa	agtet	ttt a	aatto	ggtaa	aa ta	aata	agcat	t taa	attt	tttā	tag	catgi	tat	tcac:	aattot	1445
gege	gtac	ett a	attg	tacct	ta a	gggat	ttota	a aa:	gatai	ttgt	cact	tgtai	taa	aaca:	gaaage	1505
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.... 19 242 +212 FPT
+213 Homo saplens <400 × 13 Met Asp His His Gln Pro Gly Thr Gly Arg Tyr Gln Val Leu Leu Asn Glu Glu Asp Asn Ser Glu Ser Ser Ala Ile Glu Gin Pro Pro Thr Ser Ash Fro Ala Fro Sin Ile Val Sin Ala Ala Ser Ser Ala Pro Ala Leu Glu Thr Asp Ser Ser Pro Pro Pro Tyr Ser Jer Ile Thr Val Glu Val Pro Thr Thr Ser Asp Thr Glu Val Tyr Gly Glu Phe Tyr Pro Val Pro Pro Fro Tyr Ser Val Ala Thr Ser Leu Pro Thr Tyr Asp Glu Ala Glu Lys Ala Lys Ala Ala Ala Met Ala Ala Ala Ala Ala Glu Thr Ser Gln 105 Arg Ile Glu Glu Glu Cys Pro Pro Arg Asp Asp Phe Ser Asp Ala 115 120 Asp Gln Leu Arg Val Gly Asn Asp Gly Ile Phe Met Leu Ala Phe Phe Met Ala Phe Ile Phe Asn Trp Leu Gly Phe Cys Leu Ser Phe Cys Ile 150 Thr Asn Thr Ile Ala Gly Arg Tyr Gly Ala Ile Cys Gly Phe Gly Leu 170 Ser Leu Ile Lys Trp Ile Leu Ile Val Arg Phe Ser Asp Tyr Phe Thr 130 185 Gly Tyr Phe Asn Gly Gln Tyr Trp Leu Trp Trp Ile Phe Leu Val Leu 200

Gly Leu Leu Phe Phe Arg Gly Phe Val Asn Tyr Leu Lys Val Arg

Ash Met Ser Glu Ser Met Ala Ala Ala His Arg Thr Ard Tyr Phe Phe

2.35

230

Leu Leu

k010 x 14
k011 x 2304
k010 x 1NA
k016 x Homo sapiens

C2228

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cca	gca	stt	gaa	act	gac	tat	ticc	cct	с⊙а	cca	tat	agt	agt	att	act	195
Pro	Ala	Leu	Glu	Thr	Asp	Ser	Ser	Pro	Pro	Pro	Tyr	Ser	Ser	Ile	Thr	
	50								5 4					60		

gtg	gaa	gta	cct	aca	act	tca	gat	āCā	gaa	gtt	tac	ggt.	gag	ttt	tat.	243
Val	Glu	Val	Pro	Thr	Thr	Ser	Asp	Thr	Glu	Val	Туr	Gly	Glu	Phe	Tyr	
			ñ.S.					7 ∩					75			

000	gtg	сса	cct	CCC	tat	agc	gtt	gct	acc	tot	ctt	CCI	aca	tac	gat	291
Pro	Val	Pro	Pro	Pro	Tyr	Ser	Val	Ala	Thr	Ser	Leu	Pro	Тhг	Tyr	Asp	
		8.0			-		85					90				

-	gaa	gat	gag	aaj	gct	aaa	get	get	gca	atg	gca	get	gca	gca	gca	gaa	339
(Glu	Ala	Glu	Lys	Ala	Lys	Ala	Ala	Ala	Met.	Ala	Ala	Ala	Ala	Ala	Glu	
		95		-		-	100					105					

аса	tat	⊙ая	aga	att	cag	gag	gaa	gag	tgt	cca	cca	aga	gat	gac	ttc	387
Thr	Ser	Gln	Arg	He	Glr.	Glu	Glu	Glu	Сув	Pro	Pro	Arg	Asp	Asp	Phe	
115					115					120					125	

agt	gat	дса	gar	cag	cic	aga	gtg	ggg	aat	gat	gge	att	tta	atg	atg	435
Ser	Asp	Ala	Asp	Gln	Leu	Arg	Val	Gly	Asrı	Asp	G1y	11€	Phe	Met	Leu	
				130					7 3 6					1.4.3		

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Ala	Phe	Phe	Met	Ala	$Fh\in$	Ile	Ph∈	Asn	Trp	Leu	Gly	Phe	873	Leu	Ser	
			145					150					155			

tta	tat	ato	арр	aat	acc	ata	gat	jgā	agg	tat	ggt	gut	ato	tga	gga	631
Phe	Cys	Ile	Thr	Asn	Thr	Ile	Ala	Sly	Arg	Tyr	Gly	Ala	Ile	Cys	31;	
		160					165					176				

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Lys Val Arm Ash Met Ser Blu Cer Met Ala Ala Ala Bis Arg Thr Arg D25 D30 D35

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grigaatito gagateatot gtaaabootao aachttaata gaagactas aataacagaa cob gacaaattag tgaagaaaag acggagtttc gaaattgaat ggcagggtgg tittitgiitta 595 caagecatti etgiteatte titaagiate talattieat tigittigea catalgeata 958 tytycccatt taagatattt goatatactt gatagaaacc ataaagttyt agcayttaag 1018 tecagteaca titiggitaat eagigititga talaatigaa agagitigagi ggalaaacag 1078 tottopagot tytaaatgoo attyaottot yacetyacat ttaytataat aaaaatyaaa 1136 ttottaacca tqtcaaatqa tttaqtttot qqctottaqa otcatotqqc agttotacac 1198 atgaaacato titigitata tagggigtat igaaaccigo agigcigati attagaaagg 1258 atttgtcaga tttttgaaca tgatatttac attattattt aggaaaactc ttcctgtaaa 1318 taadcatqda taadttadtt totqdaatqt titottagaa attqtqtoda gatagdtito 1378 actaatttta aattaagtga actaaatata tatgtgtata tgtatacaca tatatataca 1438 cacacacata tatatattia gaaacgtgag tgttaaagat agaatttgtt ttaggacaaa 1498 ttttaagaaa atgtgggaat accaaatgto otttataaga aaaataaatt ttattttaag 1550 ggadatasta gttttaggga titttsagaty ggaagstgca titttaggat tgccsatstt 1618 aaqaqatott qoaqqaaqaq attijtattaj atattatatt tatttoatti aagataatti 1678 toaaagttaa tittotaaat aagataatto toattigigi tigioittia aaaggocaat 1°38 aaaatatott toagtatoat tgtaataatt tittagagitt taatitigtaa agottagoaa 1798 ataaaatott qtabtatqaa tagottotty otttatgaot ttaggattaa ottytaaaaa 1858 adatatootq aastgagata tgcaaaatas toattttcaa gttatggaaa tgtgtttgtg 1918 quatataqqa otqtqqqqto tqtqtqtqta qtqaqaqtqt qtaqooacta ttataactqq 1278 astribatti arattoataa actaotatat tioocatott geaaatosii tiatuisisa \mathbb{Z}^{368} rejuititie eittegatia tateitigat tiidaatase aacatitaaa atgaidgist . $^{5.98}$ titatoitti aäaottaaaa attatitaat adagotatai ggacoitaia aaaitdaitt 2003 ritattiait atragadait actactaaaa quiacatcta actattcadu gacaittic 2015 ranthireas (Matasaur) tattariott ranasotet tetotation etastinit . Wit rannatotit sataaataaa abauttiijt iilluotaata hagoot - <211> 242 <212> PRT <213> Homu s

(213> Homu sapiens

K400> 15

Met Asp His His Gln Pro Gly Thr Gly Arg Tyr Gln Val Leu Leu Asn 1 5 10 15

Slu Glu Asp Asn Ser Glu Ser Ser Ala Ile Glu Gln Pro Pro Thr Ser 20 25 30

Ash Pro Ala Pro Gln Ile Val Gln Ala Val Ser Ser Ala Pro Ala Leu 35 40 45

Glu Thr Asp Ser Ser Pro Pro Pro Tyr Ser Ser Ile Thr Val Glu Val
50 55 60

Pro Thr Thr Ser Asp Thr Glu Val Tyr Gly Glu Phe Tyr Pro Val Pro 65 70 75 80

Pro Pro Tyr Ser Val Ala Thr Ser Leu Pro Thr Tyr Asp Glu Ala Glu 85 90 95

Lys Ala Lys Ala Ala Ala Met Ala Ala Ala Ala Ala Glu Thr Ser Gln $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110$

Arg Ile Glu Glu Glu Cys Pro Pro Arg Asp Asp Phe Ser Asp Ala 115 120 125

Asp Gln Leu Arg Val Gly Asn Asp Gly Ile Phe Met Leu Ala Phe Phe 130 135 140

Met Ala Phe Ile Phe Asn Trp Leu Gly Phe Cys Leu Ser Phe Cys Ile 145 150 155 160

Thr Asn Thr Ile Ala Gly Arg Tyr Gly Ala Ile Cys Gly Phe Gly Leu 165 170 175

Ser Leu Ile Lys Trp Ile Leu Ile Val Arg Phe Ser Asp Tyr Phe Thr 180 185 190

31y Tyr Phe Asn Gly Gln Tyr Trp Leu Trp Trp Ile Phe Leu Val Leu 195 200 205

Gly Leu Leu Leu Phe Phe Arg Gly Phe Val Asn Tyr Leu Lys Val Arg 210 215 220

Asn Met Ser Glu Ser Met Ala Ala Ala His Arg Thr Arg Tyr Phe Phe 225 230 235

Leu Leu

-2105-16

k011> 2324

SDIDE DNA

<all> Home sapiens

<22005

<2015 CDS

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					gca Ala 35	-	_			-	-					147
	-		-		gac Asp							_	_			195
					act Thr		-		-	-						243
					tat Tyr		-	-							-	291
_	_		,		aaa Lys			-		-	-	-	_	_	-	339
			_		cag Gln 115		-		_			_	_	-		387
					ata Leu											435
					ttt Dho											483
					ac: Thr											531
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<400 Met 1			Arg	Arg 5	Ser	Gln	Arg	Val	Cys 10	Ala	Ser	Gly	Pro	Ser 15	Met
Leu	Asn	Ser	Ala 20	Arg	Gly	Ala	Pro	G1u 25	Leu	Leu	Arg	31y	Thr 30	Ala	Thr
Asn	Alá	Glu 35	Val	Ser	Ala	Ala	Ala 4(Ala	Gly	Ala	Thr	Gly 45	Ser	Glu	Glu
Leu	Pro 50	Pro	Gly	Asp	Arg	Gly 55	Cys	Arg	Asn	Gly	Gly 60	Gly	Arg	Gly	Pro
Ala 65	Ala	Thr	Thr	Ser	Ser 70	Thr	Gly	Vāl	Ala	Val 75	Gly	Ala	Glu	His	Gly 80
Glu	Asp	Ser	Leu	Ser 85	Arg	Lys	Prc	Asp	Pro 90	Glu	Pro	Gly	Arg	Met 95	Asp
His	His	Gln	Pro 100	Gly	Thr	Gly	Arg	Туг 105	Glrı	Val	Leu	Leu	Asn 110	Glu	Glu
Asp	Asrı	Ser 115	Glu	Ser	Ser	Ala	11e 120	Glu	Gln	Pro	Pro	Thr 125	Ser	Asn	Pro
Ala	Pro 130	Gln	Ile	Val	Gln	Ala 135	Val	Ser	Ser	Ala	Pro 140	Ala	Leu	Glu	Thr
Asp 145	Ser	Ser	Pro	Pro	Pro 150	Tyr	Ser	Ser	Ile	Thr 155	Val	Glu	Val	Pro	Thr 160
		-		165		-	-		170	-				Pro 175	
			180					185					190	Lys	
		195					200					205		Arg	
	210					215					220			Asp	
225					230	_				235				Met 	240
				245					250					Thr 255	
			260					265					270	Ser	
:::∈	Lys	Trp 275	Tie	Leu	Tle	∵al	Arq 280	Phe	Ser	Asp	Tyr	Phe 285	Thr	Gly	Tyr

<212> PRT

The Asr Gly Gln Tyr Trp Iou Trp Trp Ile Fhe Lou Val Lou Gly Lou 790 295 370

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ags geg ege gge ge Ser Ala Arg Gly Al 20				
gag gtc tcg gcg gc Glu Val Ser Ala Al 35				=
ong gga gan ngo gg Erc 31y Ast Ang Gl 5	y Jys Arg Asn			
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tee ofe tot our AA Jor Tou Jor Ary Ly AS		Him Pr. Hly		
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tha das tha the do Ger Shu Cer Jer Al 116				
nad att dtd nad da Alb lle Val alb Al Is	: V:1 291 201			
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Glu His Leu Pro Leu Met Ser Glu Ala Gly Ala Gly Leu Pro Asp 185 186

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The Ash Cys Rhu Win Cys Ser Ser Cys Arn Ash Arn Lys Thr Mly His 205 285

Gin Tie Dys Lys The Arg Lys Tys Bin Bin Leu Lys Lys Lys Ero Jer Ala Ala Ly: Win Lys Va. Met Leo Pr. Thr Ly Ala A.a Phe Art Fr Phe 31n -210% Jb 4211 · 144p 4212 - DNA <213 · Homo sapiens (220 · :221 · CDS <222 - (292) .. (125") <400 - 33 tactyptggs ggotggagog gagogsacog oggeggtggt goodagagog gagogdagot 60° scatgacacy accetaceae taggestage ggagaaggag gaggtagaag attggaagaa 120 teggagagee gagtgaagae attteeacet ggacaeetga eeatgtgeet geeetgagea 180 gogaqqooca ecaggeatot otgttgtggg cagcagggcc aggtcotggt ctgtggaccc 240 teggeagtig geaggetees tetgeagtig ggtetiggges teggeeceae e atg teg 297 Met Ser 345 ago ete que ggi ggo tos sag gai geo ggo ggo agi ago ago ago ago Ser Leu Gly Gly Gly Ser Gln Asp Ala Gly Gly Ser Ser Ser Ser Ser acc aat ggc agc ggt ggc agt ggc agc agt ggc cca aag gca gga gca Thr Asn Gly Ser Gly Gly Ser Gly Ser Ger Gly Pro Lys Ala Gly Ala goa dad aad adt boa gtg gtg dot doo doo goa coa goo toa dta doa Ala Asp Lys Ser Ala Val Val Ala Ala Ala Ala Pro Ala Ser Val Ala gat gad aca coa con bgo gad out out and aag ago gut ato ate aut Asp Asp Thr Fit Fit Fro Slit Ard Ard Ash Lys Ser Sly 116 116 Orr mag coo oto allo 4ab Ago mbo obb mb too sub oblam the car term Mu Pro Lou Ash Lys Ser Lou And Ard Cer And Pro Lou Gor His Tyr der der Ehe tly der der fly tly der tly dly dly der Met Met tly ina nadit moderni dan aad din amodid din dia din din din in modil my gry der all ag typ all the all all all all all all all all

tig gom aat Leu Ala Asn 118						.i - :
aan oot and Asn Pro Thr						e :
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Sag Sag tit : Gln Gln Fhe : 165						825
dat ctc ccg : His Leu Pro : 180						873
get gtg gea Ala Val Ala 195						921
otg ggo got Leu Gly Ala						969
ggt gtg ttc Gly Val Phe			ı His Met		u Ala Glu	1017
tac coc atg Tyr Pro Met 245			-			1065
aag ogg aaa Lys Arg Lys . 260						1113
tgo gag cag Cys Glu Gln 2 ^m 5						1161
tgo aaa tto Cys Lys Phe						1209
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Pro	Asn	Thr 35	Leu	Ser	I he	Arg	Cys 40	Ser	Leu	Ala	Asp	Phe 45	Gln	Ile	Glu
L∵s	L;;s 50	lle	Gly	Arg	Gly	Gln 55	Phe	Ser	Glu	Val	Tyr 60	Lys	Alä	Thr	Cys
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Met	Met	Asp	Ala	Lys 85	Alā	Arg	Gln	Asp	ē0 C∑s	Val	Lys	Glu	Il€	Gly 95	Leu
Leu	Lys	Gln	Leu 100	Asrı	His	Pro	Asn	Ile 105	Ile	Lys	Tyr	Leu	Asp 110	Ser	Phe
Ile	Glu	Asp 115	Asn	Glu	Leu	Asn	Ile 120	Val	Leu	Glu	Leu	Ala 125	Asp	Ala	Gly
Asp	Leu 130	Ser	Gln	Met.	Ile	Lys 135	Tyr	Phe	$\Gamma\lambda\epsilon$	Lys	Gln 140	Lys	Arg	Leu	Ile
Pro 145	Glu	Arg	Thr	Val	Trp 150	Lys	Tyr	Phe	Val	Gln 155	Leu	Cys	Ser	Ala	Val 160
Glu	His	Met	His	Ser 165	Arg	Arg	Val	Met	His 170	Arg	Asp	Ile	Γλε	Pro 175	Ala
Asn	Val	Phe	Ile 180	Thr	Ala	Thr	Gly	Val. 185	Val	Lys	Leu	Gly	Asp 190	Leu	Gly
Leu	ыlу	Arg 195	Phe	Phe	ser	Ser	31u 200	Thr	Tr.r	Ala	Alm	His 235	Ser	Levi	∵al

Ala Ala Leu Gin Ser Pro Phe Tyr Gly Asp bys Met Ash Leu Phe Ser 245 - 250 - 255

Let Jys tin Lys lie din 31m Jys Asp Tyr Fr. Fr. Let Fr. Hy din 260°

His Tyr Ger Slu Lys Lou Arg Slu Leu Val Ser Met Tys Ile Tys Fra 2005 - 2005 - 2005

Asp Fro His Ain Ard Fro Asp Ile Mly Tyr Val His Min Val Ala Lys

2.5 1 10 2 Gin Met His Tie Try Met Ser Ser Thr <2105 41 *211> 1897 4212> DNA <213> Homo sapiens <2200 <221> CDS <222> (153)...(1091 <400> 40 ggeggaaceg agetgaeggg egtgeggeeg etgegeegea aaetegtgtg ggaegeaceg 60 cticagodyc degegygeda gegeaddygt decedagogg dagddgagdd dgddeggegi 120 cogt:ogtgo octogtgagg otggoatgoa gg atg goa gga dag dod ggo dad Met Ala Gly Gln Pro Gly His aty dec dat gga ggg agt too aad aad otd tgd dad add otg ggg dot Met Pro His Gly Gly Ser Ser Asn Asn Leu Cys His Thr Leu Gly Pro 10 15 gty dat dot dot gad doa bag agg dat doe aad adg dtg tot tit ogd Val His Pro Pro Asp Pro Gln Arg His Pro Asn Thr Leu Ser Phe Arg tor teg etg geg gae tte rag atc gaa aag aag ata gge ega gga rag Cys Ser Leu Ala Asp Phe Gln Ile Glu Lys Lys Ile Gly Arg Gly Gln tto ago gag gtg tao aag god aco tgo otg otg gad agg aag aca gtg 365 Phe Ser Glu Val Tyr Lys Ala Thr Cys Leu Leu Asp Arg Lys Thr Val got ong aag aag gig cag and inti gag ang ang gad god aag gog agg 413 Ala Leu Lys Lys Val Gln Ile Phe Glu Met Met Asp Ala Lys Ala Arg dag gad tift gto hag gag ato gipo ofo tity aag daa big aab bad boa Gin Asp Cys Val Lys Glu Ile Gly Leu Leu Lys Gin Leu Ash His Pro aat atc atc dag tat tid gac tog tit atc dda dag aac 14d oid 4d. Asn lie lie Lys Tyr beu Asp Ger Fhe lie Glu Asp Asn Hu Leu Asn चार प्राच प्राच प्रचल राज करते. युक्त काक जाग अकेंग्रे राज रहेंगे होंगे की ग He Wallien Win Lon Ala Asp Ala Wly Asp Lou Ser Sin Mot Ile Lys tag tit aan aad tah aan tin tit at bord gan ann aga ma tid aan Tyr Phe lys Lys Sin lys Arn Leu Ile Pro Siu Arn Thr Val Try Lys tan tit dia has big tan awn don dia mas has as he second se

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gig aig dao bya gac aib aag boi bob aab gig tid aib aba gob abg Va. Met His Arg Asp ile Lys Fri Ala Ash Va. Fhe Tie Thr Ala Thr int	- 5 :
ggo gto gtg aag oto ggt gao ott ggt otg ggo ogo tto tto ago tot Gly Val Val Lys Leu Gly Asp Leu Gly Leu Gly Arg Phe Phe Ser Ser 185 190 195	749
gag abo acc goa goc cac too eta gig ggg abg coo tao tab atg toa Glu Thr Thr Ala Ala His Ser Leu Val Gly Thr Pro Tyr Tyr Met Ber 200 205 210	~9.7
ccg gag agg ato cat gag aac ggc tac aac ttc aag tcc gac atc tgg Fro Glu Arg Ile His Glu Asn Gly Tyr Asn Phe Lys Ser Asp Ile Trp 220 225 230	845
too tig ggo igt oig oig tad gag aig god god oid bag ago doo tid Ser Leu Gly Cys Leu Leu Tyr Glu Met Ala Ala Leu Gln Ser Pro Phe 235 240 245	893
tat gga gat aag atg aat oto too otg tgo oag aag ato gag oag Tyr Gly Asp Lys Met Asn Leu Phe Ser Leu Cys Gln Lys Ile Glu Gln 250 255 260	941
tgt gae tae ebe eea ete eee ggg gag eae tae tee gag aag tta ega Cys Asp Tyr Pro Pro Leu Pro Gly Glu His Tyr Ser Glu Lys Leu Arg 265 270 275	989
gaa otg gto ago atg tgo ato tgo oot gao ooc oac bag aga oot gao Glu Leu Val Ser Met Cys Ile Cys Pro Asp Pro His Gln Arg Pro Asp 230 285 290 295	1037
ato gga tao gtg dao dag gtg god äag dag atg dad atd tgg atg tod Ile Gly Tyr Val His Gln Val Ala Lys Gln Met His Ile Trp Met Ber 300 305 310	1085
ago ado tgagogtgga tgoacogtgo ottatoaaag ocagoacoad titgoottad Ser Thr	1141
tigagiogio tyotottoga giggodaosi ggiagodiag aadagsiaag acdadaggi	1201
toadbaqqtt oocoaaaagg otgoobagoo ttabadbada tdotdaaggo aqadbaqotd	1261
aggaaggado dotagooada fatcaotdat garcauatto olaalutoott totttataot	1
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Ala Sin Pro Fro Tyr Fro Sly Ala Pro Tyr Fro Gin Pro Fro Phe Min

Pro Ser Pro Tyr Gly Gln Pro Gly Tyr Pro His Gly Pro Ser Pro Tyr 50 60

Pro Gln Gly Gly Tyr Pro Gln Gly Pro Tyr Pro Gln Gly Gly Tyr Fro

Gln Gly Pro Tyr Pro Gln Glu Gly Tyr Pro Gln Gly Pro Tyr Pro Gln

Gly Gly Tyr Pro Gln Gly Pro Tyr Pro Gln Ser Pro Phe Pro Pro Asn 105

Pro Tyr Gly Glr. Pro Gln Val Phe Pro Gly Gln Asp Pro Asp Ser Pro 115 120

Gln His Gly Asr. Tyr Gln Glu Glu Gly Pro Pro Ser Tyr Tyr Asp Asn 135

Gln Asp Phe Fro Ala Thr Asn Trp Asp Asp Lys Ser Ile Arg Gln Ala 145 150 155

Phe Ile Arg Lys Val Phe Leu Val Leu Thr Leu Gln Leu Ser Val Thr 165 179

Leu Ser Thr Val Ser Val Phe Thr Phe Val Ala Glu Val Lys Gly Phe

Val Arg Glu Asn Val Trp Thr Tyr Tyr Val Ser Tyr Ala Val Phe Phe 195 205

lle Ser Leu ile Val Leu Ser Dys Dys Bly Asp Phe Ard Ard Lys His

Fro Trp Ash leu Val Ala Leu Ger Val Leu Thr Ala Set leu Get Tyr 225 - 230 - 240

Mot Val Gly Met Ile Ala Ser Phe Tyr Asn Thr Gla Ala Val Ile Met

All valuely lie The the Ala values the the Valuel lie the Corolle Value ($\sim 20\%$

Fig. The Ara Tyr Asp the The Ser Tys Met. By Val Les Ses Val

John Met Mai Cal Dem Fho Fho Ala Ille Dem Jys Ille Ene Ille Ark

Ash Arg Tie Leu B.n Ile Val Tyr Ala Aer Leu Bly Ala Leu Leu Pr Book Bil	
Thr Dys Phe Leu Ala Val Asp Thr Sin Leu Leu Leu Sly Ash Lys Si	<u>"</u>
Leu Ser Leu Ser Pro Blu Glu Tyr Val Phe Ala Ala Leu Asn Leu Ty 840 - 850	· r
Thr Asp Ile Ile Ash Ile Phe Leu Tyr Ile Leu Thr Ile Ile Gly Ar 365 365	a
Ala Lys Glu 1370	
<210 % 42 <211 * 1781 <212 * DNA <213. Homo sapiens	
+:220.+ +:221.+ CDS +:222:+ (91)(1203)	
(400:- 42) attg@coate accgegege egegeagegg acacegtgeg taccggeetg eggegee	egg 60
ccacegggge ggaeegegga accegaggee atg tee cat gaa aag agt ttt t Met Ser His Glu Lys Ser Phe L 1 5	
gtg tot ggg gad aad tat oot ood ood aad oot gga tat oog ggg gg Val Ber Gly Asp Asn Tyr Pro Pro Pro Asn Pro Gly Tyr Pro Gly Gl 10 15 20	
cos cay coa coc atg coc coc tat got cag cot coc tac cot igg go Pro Gln Pro Pro Met Pro Pro Tyr Ala Gln Pro Pro Tyr Pro Gly Al 25 30 35 4	d
Sot tad doa dag dod dot tto dag dod too dod tad ggt dag doa gg Fro Tyr Pro Sin Pro Pro Phe Gin Pro Ser Pro Tyr Siy Sin Pro Gi 45 50 55	g 258 Y
tad dee dat uud ood Ago doo tad doo daa duu duu tad ooa dad qq Tyr Pro His Gly Pro Ber Pro Tyr Pro Gln Gly Gly Tyr Pro Bln Gl 80 - 85 - 70	
Tyr Pro His Gly Pro Ser Pro Tyr Fro Glm Gly Gly Tyr Pro Glm Gl	¥ + + + 4
Tyr Pro His Gly Pro Ser Pro Tyr Fro Gln Gly Gly Tyr Pro Gln Gl 60 v5 cor tar roo haa igg igo tao roa had dig the East roa haa igg if	Y

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	oor Pr.															146
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	acc Thr 170															€42
	gtt Val											-				640
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-	999 Gly	-			_	-						-	-	_		786
	ctg Leu															834
	aac Asn 250															882
Tyr tgc	Asn	Thr	Glu	Ala	Val atc	Ile 255 tts	Met tea	Ala	Val cag	317 acc	Ile 260	Thr tac	Thr	Ala	Val acc	930
tyc Cys 265	Asn 250 tt:	Thr acc Thr	Glu gto Val ggo	Ala gto Val gtg	Val atc Ile 270 otc	Ile 255 tto Phe ctg	Met tec Ser	Ala atg Met	Val cag Gln atg	acc Thr 275	Ile 260 aga Arg	Thr tac Tyr	Thr gas Asp	Ala ttc Phe	Val acc Thr 280 ttc	
tyc Cys 265 toa Ser	Ash 250 tto Pho tgo Cys	Thr acc Thr atg Met	gto Val ggo Gly	Ala gto Val gtg Val 285	Val atc Ile 270 ctc Leu	11e 255 tto Phe ctg Leu	Met tec Ser gtg Val	Ala atg Met ago Ser	Val cag Gln atg Met 290	acc Phr 275 gtg Val	The 260 age Arg gtg Val	Thr tac Tyr ctc Leu	Thr gac Asp tto Phe	Ala tic Phe atc 11e 295	Val acc Thr 280 tto Phe	930
tgc Cys 265 tca Ser gcc Ala	Asn 250 ttr Phe tgs Cys att Ile	Thr acc Thr atg Met sto Leu	gto val ggo Gly tgo Cys 300	Ala gto Val gtg Val 285 ato 11e	atc Ile 270 oto Lou tto Phe	11e 255 tto Phe ctg Leu ato 11e	Met too Sor gtg Val ogg Ard	Ala atj Met age Ser aac Asn 305	val cag sln atg Met 290 cgc Arg	acc Thr 275 gtg Val atc Ile	11e 260 aga Arg gtg Val otg Leu	Thr tac fyr stc Leu gag Glu	Thr gac Asp tto Phe ato Ile 310	Ala tto Pho ato Ile 245 gtg Val	add Thr 280 ttd Phe tac Tyr	930 978
tgc Cys 265 toa Ser gcc Ala	Asn 250 tto Phe tgo Cys att Ile	Thr acc Thr atg Met sto Leu stg Leu stg	gto val ggo Gly tgo Cys 300 ggo Gly otg	Ala gto Val gtg Val gtg Val 285 ato Ile gqu	atc Ile 270 oto Lou tto Phe	Ile 255 tto Phe otg Lou ato ile otcu ato	Met too Sor gtg Vall ogg Ard tte	Ala atg Met age Ser aac Asn 305 acc Thr	val cag sln atg Met 290 cgc Arg	acc Thr 275 gtg Val atc Ile ttc The	oge Arg gtg Val etg Leu	Thr tac Tyr cto Leu gag Slu gca Ala 325	Thr gac Asp tto Phe ato Ile 310 atd Tal	Ala tto Pho atd Ile 245 gtg Val	add Thr 280 ttd Phe tac Tyr	930 976 1026
tgc Cys 265 tca Ser gcc Ala cag	Asn 250 tto Phe tgo Cys att Ile toa ser otga cys	Thr acc Thr atg Met atc Leu atg Leu atg Leu atg Leu atg Leu	gto val ggo Gly tgo Cys 300 ggo Gly otg	Ala gto Val gtg Val 285 ato 11e gqu Gly	atc Ile 270 oto Leu tto Phe stg Leu aac Ash	Ile 255 tto Phe otg Lou ato 11e otcu aag Lys 335	Met ted Sor gtg Val ogg Arg tto 9800 cag Gln	Ala atg Met age Ser aac Asn 305 acc Thr ctq Len	val cag sln atg Met 290 cgc Arg tgc tcr	acc Thr 275 gtg Val atc Ile ttc The	oge Arg gtg Val ctc Leu age ser vic	Thr tac Tyr cto Leu gag Glu gaa Ala 325 cca Pro	Thr gac Asp tto Phe ato Ile 310 atd TA1 gaa Glu	Ala tto Pho ato Ile 295 gtg Val dac Asp	Value add Thr 280 tto Phe tac Tyr add Thr	930 976 1026

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Met Ser Asp Glu Arg Glu Val Ala Glu Ala Ala Thr Gly Glu Asp Ala 1 5 10 15

Ala Ala Ser Glu Gly Ala Ala Ala Ala Ala Ala Ser Pro Pro Leu Leu 35 40 45

Arg Cys Leu Val Leu Thr Gly Phe Gly Gly Tyr Asp Lys Val Lys Leu 50 60

Gln Ser Arg Pro Ala Ala Pro Pro Ala Pro Gly Fro Gly Gln Leu Thr -65 70 75 80

Leu Arg Leu Arg Ala Cys Gly Leu Asn Phe Ala Asp Leu Met Ala Arg 85 $$90 \end{tabular}$

31n Gly Leu Tyr Asp Arg Leu Pro Pro Leu Fro Val Thr Fro Gly Met 100 105 110

31u Gly Ala Gly Val Val Ile Ala Val Gly Glu Gly Val Ser Asp Ard 115 120 125

Lys Ala Gly Asp Arg Val Met Val Leu Asn Arg Ser Gly Met Trp Gln 130 135 140

The Giu Val Thr Val Pro Ser Val Gin Thr Phe Leu He Fro Slu Ali 145 - 150 - 155

Mos Thr Phe Sin Sin Ala Ala Ala Len Len Val Ash Tyr Ile Thr Ala leb 171

<.210> 43

^{+1.11&}gt; 393

^{-1212&}gt; PRT

<213> Homo sapiens

Tyr Met Val Leu Fne Asp Bhe Gly Ash Leu Bin Fru Bly His Jer Val Leu Val Big Met Ala Ala Riy Biy Val Biy Met Ala Ala Val Rib Del 195 - 200 - 200 lys Arg Thr Val Glu Asn Val Thr Val Phe Gly Thr Ala Ser Ala Jer Lys His Glu Ala Leu Lys Glu Asn Gly Val Thr His Fro Ile Asp Tyr His Thr Thr Asp Tyr Val Asp Glu Ile Lys Lys Ile Ser Pro Lys Gly Val Asp Ile Val Met Asp Pro Leu Gly Gly Ser Asp Thr Ala Lys Gly Tyr Asn Leu Leu Lys Prc Met Gly Lys Val Val Thr Tyr Gly Met Ala Asn Leu Leu Thr Gly Prc Lys Arg Asn Leu Met Ala Leu Ala Arg Thr 295 Trp Trp Asn Gln Phe Ser Val Thr Ala Leu Gln Leu Leu Gln Ala Asn 305 310 315 Arg Ala Val Cys Gly Phe His Leu Gly Tyr Leu Asp Gly Glu Val Glu 330 Leu Val Ser Gly Val Val Ala Arg Leu Leu Ala Leu Tyr Asn Gln Gly 345 His Ile Lys Pro His Ile Asp Ser Val Trp Pro Phe Glu Lys Val Ala 360 Asp Ala Met Lys Glm Met Glm Glu Lys Lys Asm Val Gly Lys Val Leu Leu Val Fro Gly Fro Glu Lys Glu Asn <210> 44 <211> 2396 <212> FNA <213> Homo sapiens 9022 -8221 - 273 <2225 *504...1228*</pre> 8433 44 agong dalah hintopan sola genghappoloh berbippi pada ang berbip ang ang ber Mot 3km Asp

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Fig. Are the two Alastic Alastic Education By the App. Alastic Errors.

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Thr gad Glu ata Leu 190	Val gaa Glu 165 ttt Phe	Pro 150 gct Ala gac Asp	tog Ser got Ala tto Phe	yal goo Ala guo Gly	Gln ttg Leu aac Asn 185	Thr ote Leu 170	tto Phe 155 gtc Val cag 31n	ctg Leu aat Asn cct Pro	att Ile tac Tyr ggc sly	ect Pro att Ile can His 190	aca Thr 175 ago Ser	gcc Ala 160 gcc Ala gtc Val	atg Met tac Tyr tty Leu	acc Thr atq Met gta Val	Phe sto value dac His les aca	586
Thr gad Glu oto Leu 180 atd Met	Val. gaa. Glu 165 ttt Phe gct Ala	Pro 150 gct Ala gac Asp gca Ala	tog Ser got Ala tto Phe gga Gly	yal goo Ala guo Sly uut Sly	ttq Leu aac Asn 185 gtg Tal	Thr ote Leu 170 cta Leu	tto Phe 155 gto Val cag 31n atg	ctg Leu aat Asn cct Pro	att Ile tad Tyr gdd Sly gdd Ala 205	cot Pro att Ile cac His 190 gta Val	aca Thr 175 acc cag	goo Ala 160 goo Ala gto Val otg	atg Met tac Tyr ttg Leu tgc Cys	acc Thr atq Met qta Val	Phe sto Value Cac His 195 aca Thr	586
Thr gad Glu oto Leu 180 ato Met	Val. gaa Glu 165 ttt Phe gct Ala	Pro 150 got Ala gac Asp gca Ala aat Asn	tog ser got Ala tto Phe gga y gig: 515 aan	yal gad Ala gad Sly adt Sly ana Thr	ttq Leu aac Asn 185 gtg Val	Thr ote Leu 170 cta Leu agt 317	tto Phe 155 gto Val cag sin atg; Met	etg Leu aat Asn cot Pro cot Ala arg	att Ile tad Tyr gdd Sly gdd Ala 205	cot Pro att Ile cas His 190 gta Val	aca Thr 175 acc cag Jin	goo Ala 160 goo Ala gto Val otginates tat	atg Met tac Tyr tty Leu tgc Cys	acc Thr atq Met gta Val	Phe sto valuate His 195 aca Thr	586 634 682

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ctg Leu	aaa Lys	oca Pro	atg Met	335 317 335	aaa Lys	gto Val	gts Val	arc Thr	tat Tyr 285	gga Gly	atg Met	god Ala	aac Asn	otig Leu 290	ctg Leu	922
							atg Met									970
							cag Gln 315									1018
-				_			ctg Leu	-								1066
			-	_		_	get Ala	_			_					1114
			-		-		ccc Pro			_		-	-			1162
aaa Lys	cag Gln	atg Met	cag Gln 375	gag Glu	aag Lys	aag Lys	aat Asn	gtg Val 380	ggc Gly	aag Lys	gtc Val	ctc Leu	ctg Leu 385	gtt Val	cca Pro	1210
			aag Lys			tago	ggcaa	igt ç	ggetç	gtgaç	да со	ostaç	gagad	2		1258
pago	ogaaq	ggg a	agaaç	gttgs	jj aa	agota	acgtt	: ctç	gttg	goda	зсаф	gadīt	igo a	attto	cagoot	13:8
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The Val	Arg Ala 450 Gly	Lys 455 Arg Asn	420 Pro Tyr His	Leu Asp His	Arg Gln Tyr 470	Ser His 455 Tyr	Leu 440 Cys Tie	425 His Leu Pho	Cys Trp The	His Thr Lett	Val Gly 460 The	Cys 445 Ard The	Asn Cys Len	Oys ile ser ser	Cys Gly Met 467 His
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<400> 55

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^{*213&}gt; Homo sapiens

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+4535 ol

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G.n Arg Thr Pro Ala Gly Ile Arg Tyr Arg Ile Ala Val Ile Ala Asp 100 105

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Leu Lys Lys Gly Tyr Leu Thr Leu Ser Asp Ser Gly Asp Lys Val Ala 130 135 140

Val Glu Trp Asp Lys Asp His Gly Val Leu Glu Ser His Leu Ala Glu 145 \$150\$

Tys Gly Arg Gly Met Glu Leu Ser Asp Leu Ile Val Fhe Asn Gly Lys 165 170 175

Let Tyr Ser Val Asp Asp Ard Thr Sly Val Val Tyr Sin He Niv Ny 143 - 165

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